Original / Duplicate / Triplicate

CONTRACT CERTIFICATE

QM/F 33(B)

Bill No 1st and FINAL (For Other Works) Date..................

DASARAHALLI DIVISION

T. DASARAHALLI DIVISION

Bill Received No Dated------------- Cash Book Voucher No dated-----------

Scheduled Docket No Head of Account **:P-3727 SC-SP/TSP MUKYAMANTRIGALA NAVA BENGALURU YOJANA**

Est cost: Rs **99.00 Lakhs**

Name of work (as per sanctioned estimate) **Job Code No:-014-20-000017**

IMPROVEMENTS TO ROADS AND DRAINS AT KATARAYANAGARANAGARA IN WARD NO.14, BAGALAGUNTE, DASARAHALLI-SUB-DIVISION SL. NO. 07, G.O. NO. 89

Name of Contractor:-M/S TECHINICAL MANAGER (WEST), KARNATAKA RURAL INFRASTRUCTURE DEVELOPMENT LIMITED.NO.280,59TH CROSS,17TH C MAIN ROAD, 3RD Y BLOCK, RAJAJINAGAR, BANGALORE 560010

Reference to Agreement No:EE/DD/AGR/521/2019-20 **Date-22-01-2020**

Certified that the measurements were taken by me on ......22/03/20 ....and recorded in Pages 35174 - 35175 of measurement Book No 352/07-09 and that the work is satisfactorily executed.

Contractor. **Officer in charge of work.**

Certified that the measurements were taken by me on ....and found correct.

The work is satisfactory executed. Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate usage on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

22/3

Sub Division Officer

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು:
ಟಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ. ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು 560073.

If Memorandum of payment

1) Total value of work done or supplies made as per account within.
2) Deduct amount to be held in reserve being------- percent Rs......................
3) -do- Balance
4) Deduct payments :
   a) Amount of previous payment as in the office cash book voucher No-------------Dated--------------------S.D.No----------------------
   b) Payments cost store or other materials supplied.
   Now made recovery of amount creditable to this / other work
   Amount paid on this bill cheque / cash
5) Balance being unpaid value of work done held in reserve
6) Deduct cash advance made on the office cash Book Voucher No------------- dated -----------------------less adjustments
7) Net amount due to or from contractor
   Unadjusted items
8) Advance to contractor for materials brought to site (as detailed) within value of Government materials supplied

Contractor's Signature.

Received Rs. (in words)

by cash and by adjustment of payment as per memorandum.

Witnesses : 1. (For office use)

2

Dated signature of contractor Stamp

Paid by me by cheque No Dated

Cash Rs Dated

Initials of officer making payment

Executive Engineer.

1	KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20. MORTH Specification No. 202. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.
2	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.
3	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1. 00 km and complete as per specifications. MORTH Specification No.301. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.
4	KSRB 4-1.7: Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 ems. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per Specification No. KBS 4.1, 4.2
5	KSRRB M2200-5.12. Providing and laying Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7 cum and fine aggregates @ 0.47 cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008. i) Upto 5 m height.
6	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 -do- TMT Bars Fe 500. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.
7	Removing and resetting of footpath slab. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.
8	KSRB 15.2.2 : Providing ruled pointing 20 mm deep to stone slab with cement mortar 1:3, 20mm deep, after raking joints nicely lining, including cost of materials, labour, curing complete as per specifications. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.
9	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges , curing and concrtee finished surface on both sides etc, and complete as per the directions of Enginner in charges
10	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials separately complete as per specifications.MORTH Specification No. 202. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.
11	KSRRB 300-48. Scarifying kankar / gravel / metal crust by mechanical means upto 150mm thick, disposal of stuff including cost of all labour charges, HOM complete as per specifications. MORTH / Chapter 3. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.

Unit	Previous Measurement		Present Measurement			Total Up-to-date		Remarks
	Qty.	Cost	Qty	Rate	Cost	Qty	Cost	
Cum	0.00	0.00	6.75	413.40	2790.00	6.75	2790.00	
Cum	0.00	0.00	268.74	137.80	37033.00	268.74	37033.00	
Cum	0.00	0.00	632.58	43.46	27492.00	632.58	27492.00	
Cum	0.00	0.00	45.19	5714.97	258274.00	45.19	258274.00	
Cum	0.00	0.00	63.00	5775.37	363848.00	63.00	363848.00	
TONNE	0.00	0.00	3.18	72326.98	229926.00	3.18	229926.00	
Sqm	0.00	0.00	253.80	208.82	52999.00	253.80	52999.00	
Sqm	0.00	0.00	72.00	49.06	3532.00	72.00	3532.00	
Sqm	0.00	0.00	213.03	1615.00	344043.00	213.03	344043.00	
Sqm	0.00	0.00	86.65	952.94	82575.00	86.65	82575.00	
Sqm	0.00	0.00	577.69	25.44	14696.00	577.69	14696.00	

12	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. MORTH I Chapter 3. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.
13	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.
14	KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1 ,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a hatching plant, transported to site,laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5 -do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.
15	KSRRB M400-17. Providing, laying, spreading and compacting Crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No.406. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.
16	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to18:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades,textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.
17	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications. Clause 501 of MORTH V revision
18	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. Clause 502 of MORTH V revision. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.
19	KSRRB 500-9. Providing and applying tack coat using 80/100 grade bitumen (VG10) on granular base such as WBM surfaces hot bitumen primed at 4 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. Clause 503 of MORTH V revision. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.

Sqm	0.00	0.00	577.69	6.36	3674.00	577.69	3674.00	
Cum	0.00	0.00	193.29	1855.00	358546.00	193.29	358546.00	
Cum	0.00	0.00	57.77	5354.02	309294.00	57.77	309294.00	
Cum	0.00	0.00	471.39	2001.28	943387.00	471.39	943387.00	
Cum	0.00	0.00	92.43	5354.02	494870.00	92.43	494870.00	
Sqm	0.00	0.00	3618.00	5.30	19175.00	3618.00	19175.00	
Sqm	0.00	0.00	2298.75	34.98	80410.00	2298.75	80410.00	
Sqm	0.00	0.00	2298.75	21.20	48734.00	2298.75	48734.00	

30	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : HDPE Grade PE80-PN6.0, 630 mm dia. (Perforated Pipe for Rain Water Harvesting Pit) All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.
31	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.

Certificate:-

1 .The contractor has executed the work satiesfactory Hence the bill is Recommended for payments

2 . The contractor has cleared all the Debries from work spot.

3 .works comes under BBMP Limit.

Sqm	0.00	0.00	19.80	10822.32	214282.00	19.80	214282.00	
Sqm	0.00	0.00	3.41	71.03	242.00	3.41	242.00	
Total					8352894.00		8352894.00	
TOTAL							8352894.00	
ADD 4% KRIDL CHARGES							334116.00	
TOTAL AMOUNT							8687010.00	
ADD 12% GST TO SR ITEMS							1042441.00	
NET AMOUNT PAYABLE OF RS							9729451.00	

Assistant Engineer-14

Assistant Executive Engineer
T Dasarahalli Sub-Division

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ಬೆಂಗಳೂರು-560073.